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1 [Escrow services and incentives in peer-to-peer networks](#)



Bill Horne, Benny Pinkas, Tomas Sander

October 2001 EC '01: Proceedings of the 3rd ACM conference on Electronic
Commerce

Publisher: ACM

Full text available: [pdf\(265.69 KB\)](#)

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Distribution of content, such as music, remains one of the main drivers of P2P development. Subscription-based services are currently receiving a lot of attention from the content industry as a viable business model for P2P content distribution. One ...

2 [Dynamic parallel access to replicated content in the internet](#)

Pablo Rodriguez, Ernst W. Biersack

August 2002 IEEE/ ACM Transactions on Networking (TON), Volume 10
Issue 4

Publisher: IEEE Press

Full text available: [pdf\(350.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#),


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Popular content is frequently replicated in multiple servers or caches in the Internet to offload origin servers and improve end-user experience. However, choosing the best server is a nontrivial task and a bad choice may provide poor end user experience. ...


Keywords: HTTP, content distribution, internet, mirroring, parallel access, peer-to-peer, replication, web

3 [In search of path diversity in ISP networks](#)

Renata Teixeira, Keith Marzullo, Stefan Savage, Geoffrey M. Voelker

-  [October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement](#)
Publisher: ACM

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Internet Service Providers (ISPs) can exploit path diversity to balance load and improve robustness. Unfortunately, it is difficult to evaluate the potential impact of these approaches without routing and topological data, which are confidential. In ...

Keywords: internet topology, path diversity


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- 4 [On the use and performance of content distribution networks](#)
 Balachander Krishnamurthy, Craig Wills, Yin Zhang
November 2001 IMW '01: Proceedings of the 1st ACM SIGCOMM Workshop on Internet Measurement
Publisher: ACM

Full text available:  [pdf\(2.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),
[cited by](#), [index terms](#)

Content distribution networks (CDNs) are a mechanism to deliver content to end users on behalf of origin Web sites. Content distribution offloads work from origin servers by serving some or all of the contents of Web pages. We found an order of magnitude ...

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- 5 [On the number of distributed measurement points for network tomography](#)
 Joseph D. Horton, Alejandro López-Ortiz
October 2003 IMC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement
Publisher: ACM


Full text available:  [pdf\(169.14 KB\)](#) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

Internet topology information is only made available in aggregate form by standard routing protocols. Connectivity information and latency characteristics must therefore be inferred using indirect techniques. In this paper we consider measurements using ...

Keywords: NP-hard, approximation algorithms, internet tomography, network measurements, resilient overlay networks, topology discovery

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- 6 [Design and implementation of a distributed content management system](#)
 C. D. Cranor, R. Ethington, A. Sehgal, D. Shur, C. Sreenan, J. E. van der Merwe
June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video
Publisher: ACM

Full text available:  pdf(98.80 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

The convergence of advances in storage, encoding, and networking technologies has brought us to an environment where huge amounts of continuous media content is routinely stored and exchanged between network enabled devices. Keeping track of (or managing) ...

Keywords: continuous media storage, distributed content management


7 [Mobile streaming media CDN enabled by dynamic SMIL](#)



Takeshi Yoshimura, Yoshifumi Yonemoto, Tomoyuki Ohya, Minoru Etoh, Susie Wee

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(623.98 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

In this paper, we present a mobile streaming media CDN (Content Delivery Network) architecture in which content segmentation, request routing, pre-fetch scheduling, and session handoff are controlled by SMIL (Synchronized Multimedia Integrated Language) ...

Keywords: CDN, SMIL, mobile network, streaming media


8 [Cooperative leases: scalable consistency maintenance in content distribution networks](#)



Anoop Ninan, Purushottam Kulkarni, Prashant Shenoy, Krithi Ramamritham, Renu Tewari

May 2002 WWW '02: Proceedings of the 11th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(201.14 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

In this paper, we argue that cache consistency mechanisms designed for stand-alone proxies do not scale to the large number of proxies in a content distribution network and are not flexible enough to allow consistency guarantees to be tailored to object ...

Keywords: content distribution networks, data consistency, data dissemination, dynamic data, leases, pullC, push, scalability, world wide web

9 [Dynamic program insertion in high quality video over IP](#)




Taehyun Kim, Jack Brassil

June 2003 NOSSDAV '03: Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video

Publisher: ACM

Full text available: Additional Information: [full citation](#), [abstract](#),

 [pdf\(269.10 KB\)](#)

[references](#), [index terms](#)

We introduce an overlay network architecture and signaling mechanism that permit program insertions in live, high quality video streams transmitted over IP networks. We describe the implementation of an application proxy that dynamically inserts pre-recorded ...

Keywords: content delivery networks (CDNs), digital television (DTV), multimedia signaling, program and system information protocol (PSIP), program cues, real-time transport protocol (RTP), video streaming

10 [Modeling redirection in geographically diverse server sets](#)



Lisa Amini, Anees Shaikh, Henning Schulzrinne

May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

Full text available:  [pdf\(362.44 KB\)](#)

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Internet server selection mechanisms attempt to optimize, subject to a variety of constraints, the distribution of client requests to a geographically and topologically diverse pool of servers. Research on server selection has thus far focused primarily ...

Keywords: content distribution network (CDN), performance, server selection, web traffic redirection

11 [Scalable techniques for memory-efficient CDN simulations](#)



Purushottam Kulkarni, Prashant Shenoy, Weibo Gong

May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

Full text available:  [pdf\(238.28 KB\)](#)

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Since CDN simulations are known to be highly memory-intensive, in this paper, we argue the need for reducing the memory requirements of such simulations. We propose a novel memory-efficient data structure that stores cache state for a small subset of ...

Keywords: approximate data structures, content distribution networks, simulation, web proxy cache

12 [A measurement-based analysis of multihoming](#)



Aditya Akella, Bruce Maggs, Srinivasan Seshan, Anees Shaikh, Ramesh Sitaraman

August 2003 SIGCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Additional Information: [full citation](#), [abstract](#),

Full text available:  [pdf\(386.82 KB\)](#)

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Multihoming has traditionally been employed by stub networks to enhance the reliability of their network connectivity. With the advent of commercial "intelligent route control" products, stubs now leverage multihoming to improve performance. Although ...

13 [A mobility-aware broadcasting infrastructure for a wireless internet with hotspots](#)



Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer
September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(292.13 KB\)](#) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

In this paper, we consider the problem of adaptively delivering live multimedia broadcasts (e.g., for applications such as TV, radio, or e-cinema) to a potentially large number of mobile hosts that roam about in a wireless internet with hotspots. We ...

Key words: hotspots/overlays, mobility, multimedia broadcasting, negotiation

14 [Application level hand-off support for mobile media transcoding sessions](#)



Sumit Roy, Bo Shen, Vijay Sundaram, Raj Kumar
May 2002 NOSSDAV '02: Proceedings of the 12th international workshop on Network and operating systems support for digital audio and video

Publisher: ACM

Full text available: [pdf\(222.68 KB\)](#) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

Media transcoding can be used to enable mobile devices that have low resolution and low bit-rate capabilities to access content created for stationary, desktop clients with high bandwidth connections. By deploying transcoding servers near the edge of ...

Key words: hand-off, mobility, transcoding

15 [Efficient and scalable on-demand data streaming using UEP codes](#)



Lihao Xu
October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available: [pdf\(1.64 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),
[cited by](#), [index terms](#)

In this paper, we propose and analyze a new multicast scheme for delivering on-demand streaming data using UEP *Unequal Protection* codes. The scheme allows an end user to join the multicast channel for a data stream at *any* time to play out ...

Keywords: UEP code, efficiency, multicast, on-demand streaming data, scalability

16 [Architecture of a quality based intelligent proxy \(QBIX\) for MPEG-4 videos](#)



Peter Schojer, Laszlo Böszörményi, Hermann Hellwagner, Bernhard Penz, Stefan Podlipnig
May 2003 WWW '03: Proceedings of the 12th international conference on World Wide Web
Publisher: ACM

Full text available: [pdf\(296.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Due to the increasing availability and use of digital video data on the Web, video caching will be an important performance factor in the future WWW. We propose an architecture of a video proxy cache that integrates modern multimedia and communication ...

Keywords: LRU, MPEG-4, MPEG-7, RTP, RTSP, media adaptation, media gateway, replacement, video caching, video proxy

17 [N for the price of 1: bundling web objects for more efficient content delivery](#)



Craig E. Wills, Mikhail Mikhailov, Hao Shang
April 2001 WWW '01: Proceedings of the 10th international conference on World Wide Web
Publisher: ACM

Full text available: [pdf\(208.61 KB\)](#) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Keywords: HTTP, delta encoding, persistent connections, web performance

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